



Updated SSC / HOP Productivity and Guidelines

Part I: Improving SSC communication effectiveness

Part II: Improving HOP program productivity

Sabrina Savage



Part I



Improving SSC communication effectiveness



Objectives



1. Determine a more consistent and effective method to communicate the SSC monthly recommendations to the COs.
 - a. Response to flare targets.
 - b. Focused Mode priorities.

1. Determine appropriate targets for Quiet Sun campaigns.
 - Base on historical HOP effectiveness.



1. Effective communication from SSC



a. Responding to Flare Targets

- Revisit guidelines for implementation by Chief Observers (COs) and Chief Planners (CPs).
 - This was handled by the SWG in 2011.
 - Guidelines not effectively followed recently due to new COs, more active conditions, etc.



Hinode Flare Watches



CO HOP override discretion:

- <http://www.isas.jaxa.jp/home/solar/guidance/node12.html>

- "The Hinode SWG has reviewed the processes and procedures for flare observations based on the issuance of a Max Millennium Flare Watch (MMFW) as well as the productivity of Hinode Observation Programs (HOPs). The SWG has made two decisions regarding these observing programs."

- "First, regions with the potential to create flare will be given the highest observing priority. The target for the observations may utilize the MMFW target designation or Hinode will begin instituting a "Hinode Flare Watch" that may be called by the Chief Planner, Toshi Shimizu, Taro Sakao, or a designate of the Science Schedule Committee. The target for the Hinode Flare watch will be selected at that time, and the instruments will follow that target using approved flare watch programs. Any HOPs not completed as the result of a flare watch will be rescheduled, if possible, and the contact for the HOP will be notified of the change in plan as soon as possible after the issuance of the Hinode Flare watch. Synoptic observations (including synoptic HOPs) should be completed as scheduled or as soon as possible after the end of the flare watch. The SWG will assess success of this new policy at the August 2012 SWG meeting."



Hinode Flare Watches



CO HOP override discretion:

- <http://www.isas.jaxa.jp/home/solar/guidance/node11.html>
- "The Chief Planner and Chief Observers may also suspend normal HOP support if a sufficiently interesting target of opportunity (TOO) for an identified TOO HOP appears. Such targets might be a flaring active region that does not quite meet the standards for a major flare alert, a newly emerging active region, a large filament or prominence, etc. Factors to be considered in making this decision in the daily meeting include: uniqueness and priority of the normally scheduled observations, frequency of occurrence of similar TOO's, weather and seeing conditions at ground based observatories, availability of telemetry, length of time the TOO HOP has been waiting to be run, etc. When this decision is made, the COs should explain the reasons for the changes in their daily plan announcements and should refer questions about the plan to the SSCs and Pis."



Hinode Flare Watches



CO HOP override discretion:

- Precedent for previous usage

daily note

* First pass is early today (15:59 JST) *

* Region near E limb just produced an M flare. Hinode Flare Watch called based on this, as it is impossible to see magnetic complexity level of the region at this time. Various HOPs postponed. *



Hinode Flare Watches



Implementation Suggestions

1.[Action: SSC] Create a Flare Watchdog ToO HOP that is the “Go-to” program for all instruments when active region monitoring is not currently planned.

- Perhaps determine what this would look like in 4-1.
 - How best to implement flare trigger across instruments?

2.[Action: SSC] SSC designate a [rotating?] “Flare Watchdog” to monitor solar conditions and HOP coordination to determine if any HOPs need to be postponed for active region monitoring.

- If planned HOPs are already monitoring the active region, no need to postpone.
- Otherwise, after consulting with Instrument PIs, either provide new pointing for a scheduled AR HOP or call for Flare Watch HOP to be run.
 - Directly contact COs.



Hinode Flare Watches



- Contact information (email/phone) for all COs must be easily and quickly retrievable.
- The Flare Watchdog HOP must be well advertised, especially in the event of an update.
- While COs and CP still have the option to override HOPs themselves, this adds extra support and confirmation.



1. Effective communication from SSC



b. Communicating Focused Mode Priorities

- SSC has created a list of these priorities based on solar conditions; however, Operators felt they were not effectively communicated.

- From May SSC Notes:
 1. Active Region
 2. Coronal Hole
 3. Filament/Prominence
 4. [Action: SSC] Need to include QS priorities



Target Prioritization



Suggested Solution

1.[Action: Instrument PIs/PSs] Distribute the list with the weekly transition notes as a separate notice (so that it gets extra attention).

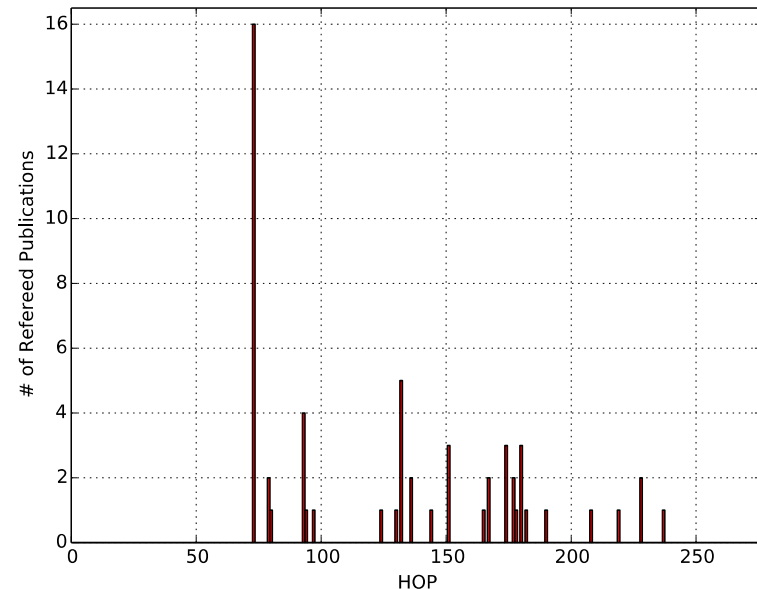
2.[Action: SSC] SSC designate a [rotating?] “Focused Mode Lead” to monitor solar conditions, attend the weekly meeting, and provide guidance based on SSC recommendations.



2. Quiet Sun Campaigns



- Foreshadowing Part II (HOP Program Assessment)
 - Some of the most productive QS campaigns are HOPs 73, 130, and 151.
- Long-term synoptic scans and monitoring
- FM allows effective long baseline campaigns that were previously difficult to implement.



This HOP has been very successful, except for the fact that we were unable to complete the planned 40 hours of continuous monitoring of the quiet Sun. HOP 151 gathered a unique dataset in terms of sensitivity, duration and cadence. It remains unique, since no similar observations have been performed so far.



Focused Mode Prioritization



Suggested Priority List:

1. Active Region

- Long-term programs such as flux emergence, waves in sunspots, flare monitoring, etc.]

2. Coronal Hole

3. Prominence/Filament

4. Disk-center, long baseline synoptics/scans

5. Polar magnetic network



Part II



Improving the HOP program productivity



Objectives



- 1. Assess the productivity of the HOP program.**
 - Determine the best type of HOPs for Focused Mode Ops.
- 2. Revisit guidelines for HOP approval by the Science Steering Committee (SSC).**
 - Provide information to assess value of proposed HOPs and productivity of frequent proposers.
- 3. Review scheduling procedures.**
- 4. Present science highlights.**

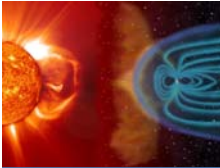


- **Information Gathering**

- Initial inquiries for HOP productivity sent out in May.

- [HOPs 72 – 242]
 - Feedback retrieved and sorted.
 - Will implement a more automated process to request updated information in the future on a biannual basis.

- Received info on ~50 HOPs (~30%)



HOP Productivity Assessment: Procedure



HOP info

| BER OF RIES SENT | NUMBER OF INQUIRIES RECEIVED | HOP NUMBER | HOP TITLE | TOO | CORE | NUMBER OF RUNS AS OF 3/6/14 | DATES | PRIMARY PROPOSER | CO-PROPOSERS | SCC CONTACT | PRIMARY PROPOSER |
|---------------------|------------------------------------|---------------|---|-----|------|-----------------------------------|-----------------|------------------------|----------------------|-------------|-------------------------|
| | | 1 | APL Solar Bolometric Imager (BSI) | NO | NO | 1 | 2007 | Bernasconi | | Berger | berger [at] lmsal.com |
| | | 2 | CORE: Polar Region Observation Campaign | NO | YES | 2 | Jan-07; Sep-07 | Cirtain | XRT Team | Cirtain | jonathan.w.cirtain [at] |
| | | 3 | EIS-SUMER Campaign Coordinated Campaign Observation with THEMIS - a. Filament/prominence study; b. Evolving 3D Magnetic Field in Active Regions | NO | NO | 1 | Apr-07 | W. Curdt | | Culhane | curdt [at] linmpi.mpg |
| | | 4 | Irradiance Measurement Campaign | NO | NO | 1 | Apr-07 | Schmieder; Aulanier | | Golub | brigitte.schmieder [a |
| | | 5 | | NO | NO | 1 | Feb-07 | Berger | | Berger | berger [at] lmsal.com |
| | | 6 | CORE: Coalignment Campaign | NO | YES | 6 | Nov-08; Feb-07; | Shimizu | Katsukawa; Ichimoto; | Shimizu | shimizu [at] solar.isa |
| | | 7 | CDS/UVCS + Ulysses Campaign | NO | NO | 2 | Mar-07; May-07 | Del Zanna | Hara | Culhane | g.del-zanna [at] damt |
| | | 8 | Stereoscopic Observation of the Coronal Structures | NO | NO | 1 | May-07 | Plunkett | | Mariska | simon.plunkett [at] n |
| | | 9 | Observations of Filament Threads and their Footpoints | NO | NO | 1 | Apr-07 | Engvold | | Berger | oengvold [at] astro.u |
| | | | CORE: Joint Observation of the Solar Corona between Hinode EIS and NAOJ | | | | | | | | |

Proposer info

| PROPOSER | FIRST NAME | HOP(s) [co] | EMAIL | ALTERNATIVE EMAIL | INVALID EMAIL |
|---------------|------------|-------------------|--------------------------------------|-------------------|--------------------------------------|
| Abramenko | | [90]; [198; [208] | avi [at] bbso.njit.edu | | |
| Aime | | [143]; [239] | | | |
| Anjali | | [206]; [240] | | | |
| Antolin | Patrick | 234; 248; 262 | patrick.antolin [at] nao.ac.jp | | patrick.antolin [at] wis.kuleuven.be |
| Anzer | | [186] | | | |
| Arnaud | | [143] | | | |
| Asai | | [189] | | | |
| Asensio Ramos | | [213] | | | |
| Attie | | [86] | | | |
| Attrill | | 123 | gattrill [at] cfa.harvard.edu | | |
| Aulanier | | [111] | | | |
| Bai | | [259] | | | |
| Baker | Deborah | [84]; 253 | deborah.baker [at] ucl.ac.uk | | db2 [at] mssl.ucl.ac.uk |
| Balmaceda | | [185] | lbalmaceda [at] icate-conicet.gob.ar | | |
| Balthasar | | 190 | hbalthasar [at] aip.de | | |
| Bando | | [122] | | | |

HOP output

| HOP Number | Target | Quality | Instruments Used | Productivity (HTML) | Number of Referred Publications | Referred Year(s) | Number of Non-referred Publications | Non-referred Year(s) | Number of EPO Activities | EPO Year(s) | Number of other outputs | Other Year(s) | Reason for Lack of Productivity | Additional Comments | | | |
|------------|--|---------|------------------|--|----------------------------------|------------------|--|----------------------|--------------------------|-------------|-------------------------|---------------|---------------------------------|---|--|--|---|
| 172 | | | | EPO: =>=> Yaj, 2014, "Hinode Education and Outreach Activities in Recent Years and in Future", Highlights of Astronomy, Vol. 15, XXVIII (AU General Assembly) Yaj 2014, "Let's Observe the Sun with Hinode" - Coordinated Observation Campaign with High School Students", Japan Geoscience Union Meeting 2014, Yokohama, Japan Yaj 2013, "Let's Look at the Sun with Hinode together!", 2013, The Astronomical Herald, 106, 503 Yaj 2013, "Communicating Solar Observations among Amateurs, Educators, Professionals and the Public", Communicating Astronomy with the Public 2013, Warsaw, Poland Yaj 2013, "Coordinated observations for High School Students as Hinode EPO Activity", Hinode-7 Science Meeting, Takayama, Japan Yaj 2013, "You are a Solar Physicist today - Analysis and Practices with Hinode data", Astronomical Society of Japan, Annual Spring Meeting, Sakuma, Japan Yaj 2012, "Let's Look at the Sun with Hinode together!" - EPO joint Observations for high school Students", 6th Hinode Science Meeting, St. Andrews, UK Yaj 2012, "Hinode Education and Outreach Activities in Recent Years and in the Future", IAU XXXVIII General Assembly, Beijing, China Yaj 2012, "Use with Archive Data joint Observed by High School Students" REFEERED PUBLICATIONS: =>=> Long et al. 2013, Solar Phys., 288, 567 Hara et al. 2011, ApJ, 737, L4 Veronig et al. 2011, ApJ, 743, L10 173 | Active Region; Prominence; Flare | Good | SOT/IRI, XRT; [Ground-based]; School Observatories - white light, H-alpha, CaK | | | | | | 14 | 2014; 2014; 2013; 2013; 2012; 2012; 2012; 2011; 2011; 2011; 2010; 2010 | | | An article about HOP173 observations was published in the Japanese astronomical magazine "Nishi Nishi" to the public. This summer joint observation is also introduced in the magazine. =>=> Participating Public Venues: =>=> Kishiwada High School Urawa Nishi High School Kato Gaku High School Matsuda High School Saitama University, Department of Education Hongo Univ. High School Hiroshima Shuei High School Hiroshima Johoku High School Kobayashi Nishi High School Nishi-Kanai Observatory Kawaguchi Science Museum Others |
| 174 | Active Region; Emerging Flux; Ellerman Bombs | Good | | | | | | | | | | | | | | | |
| 175 | | | | | | | | | | | | | | | | | |
| 176 | | | | | | | | | | | | | | | | | |

Automated
Script



HOP Productivity Assessment: Outputs

Questions / Comments: [sabrina.savage \[at\] nasa.gov](mailto:sabrina.savage@nasa.gov)

[HOP INSTRUCTION PAGE](#)

HOP Productivity Log

*Log reliant on proposer-provided information and is therefore not complete.
Please contact [sabrina.savage \[at\] nasa.gov](mailto:sabrina.savage@nasa.gov) to have any information updated.*

| | | |
|--------------------------------|------------------------------------|-----------------------------------|
| 115 Total Productivity Outputs | Histogram Per Year | Histogram Per HOP |
| 57 Refereed Publications | Histogram Per Year | Histogram Per HOP |
| 6 Non-refereed Publications | Histogram Per Year | Histogram Per HOP |
| 36 EPO Activities | Histogram Per Year | Histogram Per HOP |
| 16 Other Outputs | Histogram Per Year | Histogram Per HOP |

HOP ####: [# Refereed Publications; # Non-refereed Publications; # EPO activities; # Other outputs] -- Total

**** -- Reason for lack of productivity noted (e.g., insufficient observations, PI relocation, etc.)**

[HOP 0072:](#) [0; 0; 0; 0] -- 0
[HOP 0073:](#) [16; 0; 1; 2] -- 19
[HOP 0074:](#) [0; 0; 0; 0] -- 0
[HOP 0075:](#) [0; 0; 0; 0] -- 0
[HOP 0076:](#) [0; 0; 0; 0] -- 0
[HOP 0077:](#) [0; 0; 0; 0] -- 0
[HOP 0078:](#) [0; 0; 0; 0] -- 0





HOP Productivity Assessment: Outputs

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[HOP INSTRUCTION PAGE](#)

HOP 73, TOO, CORE

[CORE Too: Quiescent Prominence Structure and Dynamics](#)



Number of runs (AS OF 3/6/14): 17

Dates: Sep-08; Oct-08; Apr-09; May-09; Apr-10; Jun-10

Primary Proposer(s):

[Berger](#) -- [tberger \[at\] nso.edu](mailto:tberger@nso.edu)



Co-proposer(s):

[Y. Lin](#) -- [yong.lin \[at\] astro.uio.no](mailto:yong.lin@astro.uio.no)

HOP Productivity:

REFEREED PUBLICATION(s):

Dudik et al. 2013
Hillier, A. et al. 2012, ApJ, 746, 120.
Hillier, A. et al. 2012, ApJ, 756, 110.
Hillier, A. et al. 2012, ApJ, 761, 106.
Berger, T. 2012, "The Prominence/Coronal Cavity System", PASP, 463, 147.
Berger, T. 2012, "Solar Prominence fine structure and dynamics", IAUS 300 Proceedings, 15.
Berlicki et al. 2012.
Labrosse et al. 2012.
Parenti et al. 2012.
Hillier, A. et al. 2011, ApJ, 736, L1



HOP Productivity Assessment: Outputs



[HOP list](#) [Monthly Events](#)

HINODE Operation Plan (HOP)

accepted on 24-Jul-08

| HOP No. | HOP title |
|----------|---|
| HOP 0073 | CORE Too: Quiescent Prominence Structure and Dynamics |

plan term

Too

2008/09/06-2008/09/19
2008/09/29-2008/09/29
2008/10/02-2008/10/02
2009/04/16-2009/04/16
2009/04/18-2009/04/18
2009/04/21-2009/04/21
2009/04/23-2009/04/23
2009/04/24-2009/04/24
2009/04/25-2009/04/25
2009/04/26-2009/04/26
2009/04/28-2009/04/28
2009/05/07-2009/05/14
2009/10/22-2009/10/22
2010/04/30-2010/05/06
2010/06/22-2010/06/22
2010/06/25-2010/06/25
2010/06/29-2010/06/29

proposer

name : Berger et al.
Lin

e-mail : berger[at]lmsal.com
yong.lin[at]astro.uio.no

contact person
in HINODE
team

name : Berger

e-mail : berger[at]lmsal.com

Questions / Comments: [sabrina.savage \[at\] nasa.gov](mailto:sabrina.savage[at]nasa.gov)

[HOP INSTRUCTION PAGE](#)

HOP Proposer: Berger

[tberger \[at\] nso.edu](mailto:tberger[at]nso.edu)

As Primary Proposer:

[HOP 5:](#)

No HOP productivity information provided.

[HOP 16:](#)

No HOP productivity information provided.

[HOP 46:](#)

No HOP productivity information provided.

[HOP 56:](#)

No HOP productivity information provided.

[HOP 73:](#)

REFEREED PUBLICATION

Dudik et al. 2013
Hillier, A. et al. 2012, ApJ, 746, 120.
Hillier, A. et al. 2012, ApJ, 756, 110.

Links to papers
included when
provided.



HOP Productivity Assessment: Outputs

** Indicates reason behind lack of productivity provided.

[HOP 0091](#): [0; 0; 0; 0] -- 0 **
[HOP 0092](#): [0; 0; 0; 0] -- 0
[HOP 0093](#): [4; 0; 0; 0] -- 4
[HOP 0094](#): [1; 0; 2; 0] -- 3
[HOP 0095](#): [0; 0; 0; 0] -- 0
[HOP 0096](#): [0; 0; 0; 0] -- 0
[HOP 0097](#): [1; 0; 0; 0] -- 1
[HOP 0098](#): [0; 0; 0; 0] -- 0
[HOP 0099](#): [0; 0; 0; 0] -- 0
[HOP 0100](#): [0; 0; 0; 0] -- 0 **
[HOP 0101](#): [0; 0; 0; 0] -- 0
[HOP 0102](#): [0; 0; 0; 0] -- 0
[HOP 0103](#): [0; 0; 0; 0] -- 0
[HOP 0104](#): [0; 0; 0; 0] -- 0
[HOP 0105](#): [0; 0; 0; 0] -- 0
[HOP 0106](#): [0; 0; 0; 0] -- 0
[HOP 0107](#): [0; 0; 0; 0] -- 0
[HOP 0108](#): [0; 0; 0; 0] -- 0
[HOP 0109](#): [0; 0; 0; 0] -- 0
[HOP 0110](#): [0; 0; 0; 0] -- 0
[HOP 0111](#): [0; 0; 0; 0] -- 0 **
[HOP 0112](#): [0; 0; 0; 0] -- 0
[HOP 0113](#): [0; 0; 0; 0] -- 0
[HOP 0114](#): [0; 0; 0; 4] -- 4
[HOP 0115](#): [0; 0; 0; 0] -- 0
[HOP 0116](#): [0; 0; 0; 0] -- 0 **
[HOP 0117](#): [0; 0; 0; 0] -- 0
[HOP 0118](#): [0; 0; 0; 0] -- 0
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[HOP 0120](#): [0; 0; 0; 0] -- 0
[HOP 0121](#): [0; 0; 0; 0] -- 0
[HOP 0122](#): [0; 0; 0; 0] -- 0
[HOP 0123](#): [0; 0; 0; 0] -- 0
[HOP 0124](#): [1; 0; 0; 0] -- 1
[HOP 0125](#): [0; 0; 0; 0] -- 0
[HOP 0126](#): [0; 0; 0; 0] -- 0
[HOP 0127](#): [0; 0; 0; 0] -- 0 **

Proposer left the field (Grigis).

(Engineering Test) The one run of this HOP listed on the HOP pages did not actually run the SOT programs requested in the HOP proposal, nor was the target appropriate. So no good data was collected.

QS conditions made it difficult to obtain the targets. Still working on the data.

TESIS data was hard to reduce/obtain.

Although this HOP run was successful from the Hinode-side, the primary scientific objectives could not be met because: (a) Clouds at the ground-based site partially obscured the planned polarization studies of light from the corona, and (b) no well-defined coronal cavities were visible in the corona during the time of the eclipse.



HOP Productivity Assessment: Outputs

Questions / Comments: [sabrina.savage \[at\] nasa.gov](mailto:sabrina.savage@nasa.gov)

[HOP INSTRUCTION PAGE](#)

HOP Productivity Log

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Please contact [sabrina.savage \[at\] nasa.gov](mailto:sabrina.savage@nasa.gov) to have any information updated.*

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[HOP 0074:](#) [0; 0; 0; 0] -- 0
[HOP 0075:](#) [0; 0; 0; 0] -- 0
[HOP 0076:](#) [0; 0; 0; 0] -- 0
[HOP 0077:](#) [0; 0; 0; 0] -- 0
[HOP 0078:](#) [0; 0; 0; 0] -- 0



- **Caveats to keep in mind:**
 - About 1/3 responded.
 - Reliant on feedback from proposers (inherently incomplete).
 - Only up through HOP 242.
 - Does not include all of the IHOPs!
 - Does not include recent eclipse (lot of news articles)!
 - Will be part of next call.

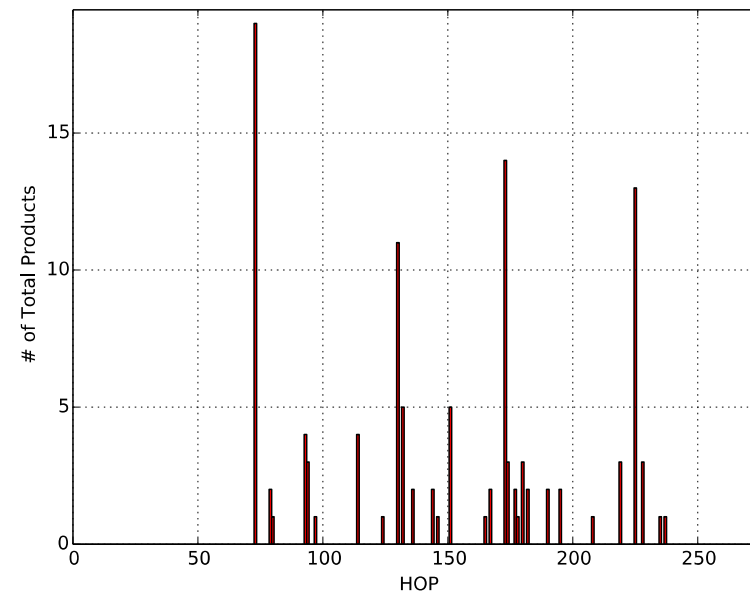
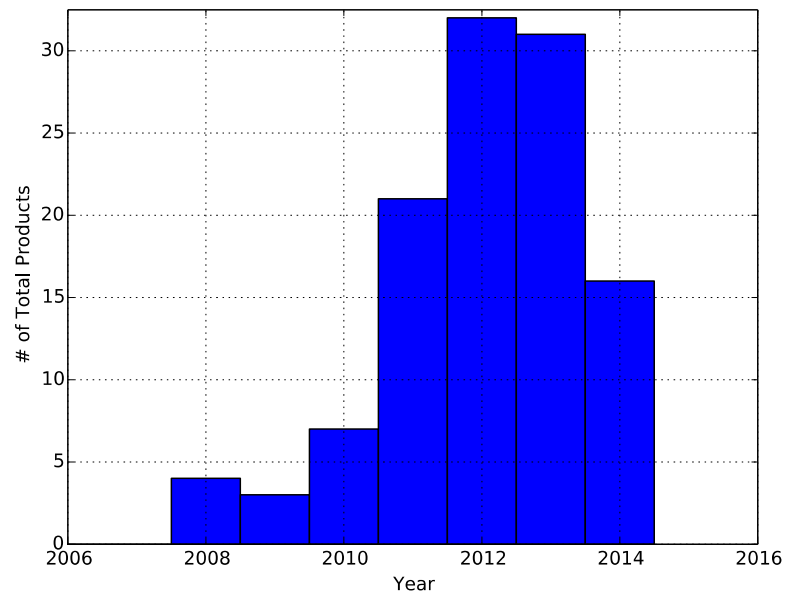


HOP Productivity Assessment: Outputs



Total Outputs Per Year and Per HOP

- Refereed Publications, Non-refereed Publications, EPO, Other Outputs



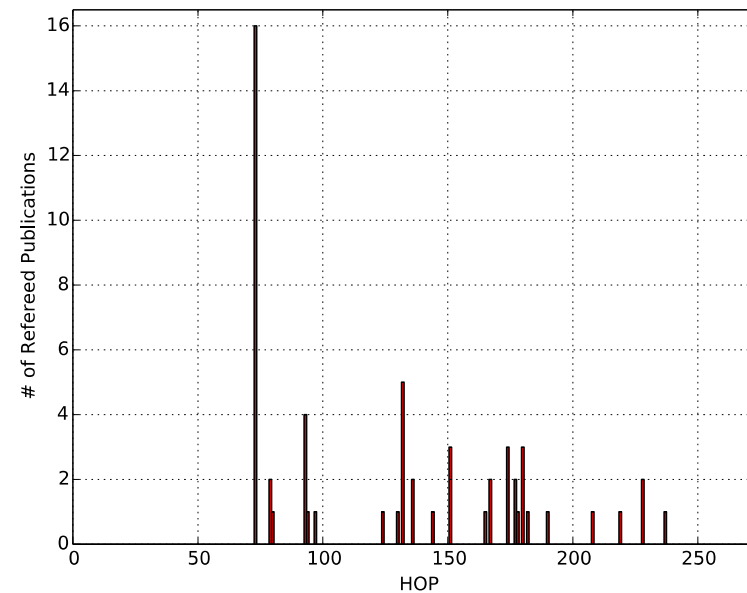
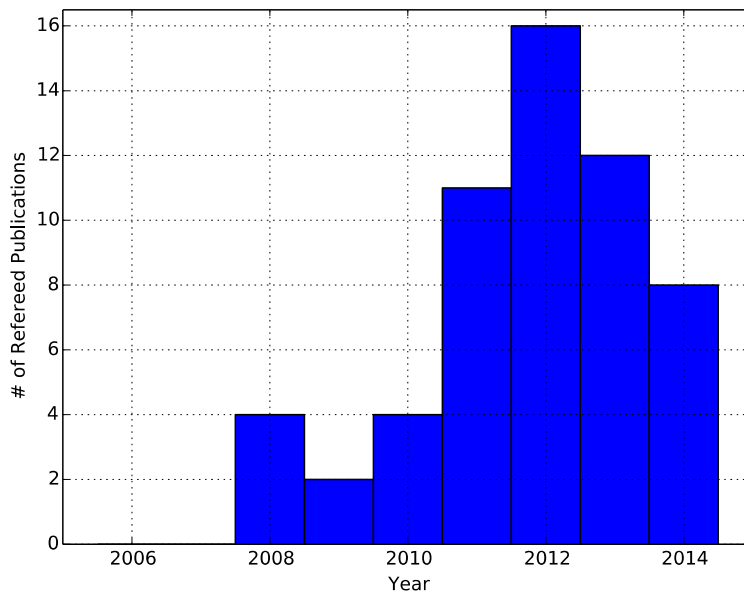


HOP Productivity Assessment: Outputs



Total Refereed Publications Per Year and Per HOP

- Star Performers: HOP 73, HOP 130 – long term campaigns



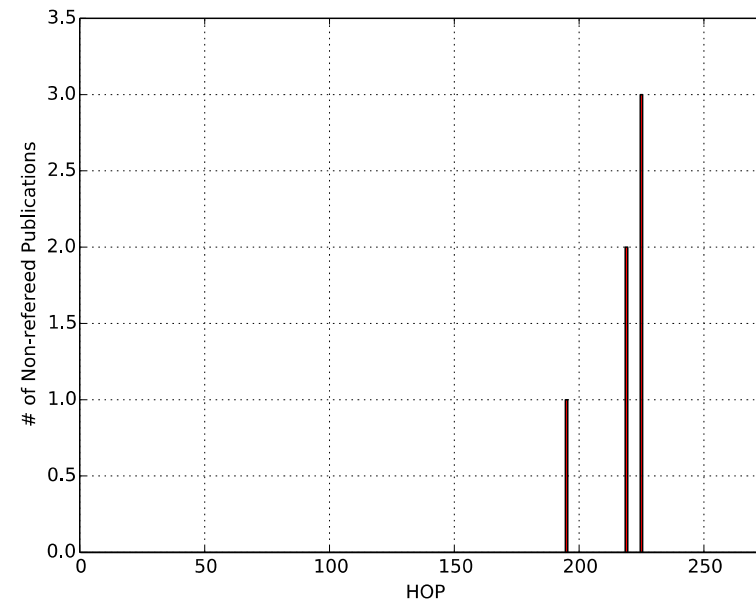
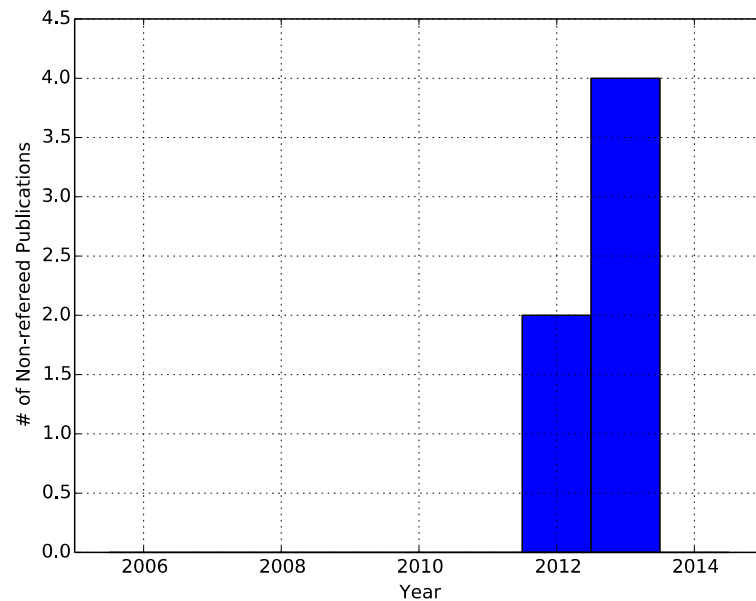


HOP Productivity Assessment: Outputs



Total Non-refereed Publications Per Year and Per HOP

- e.g., magazine/news articles



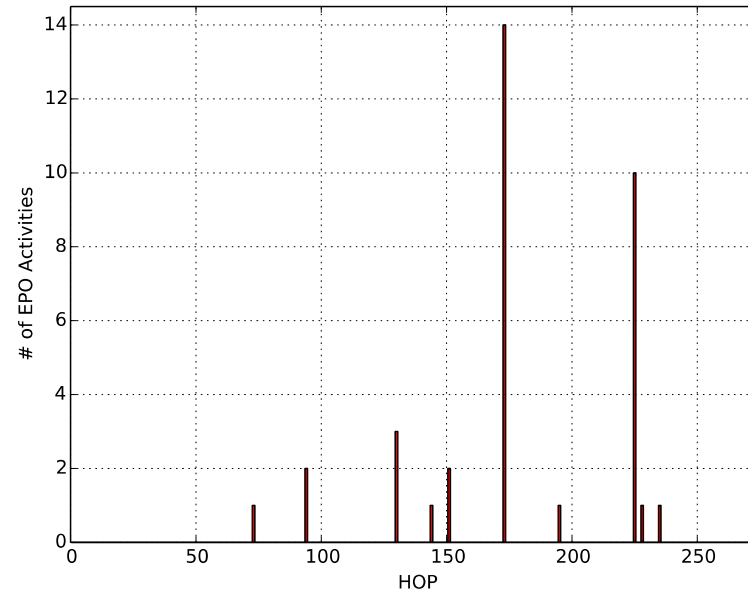
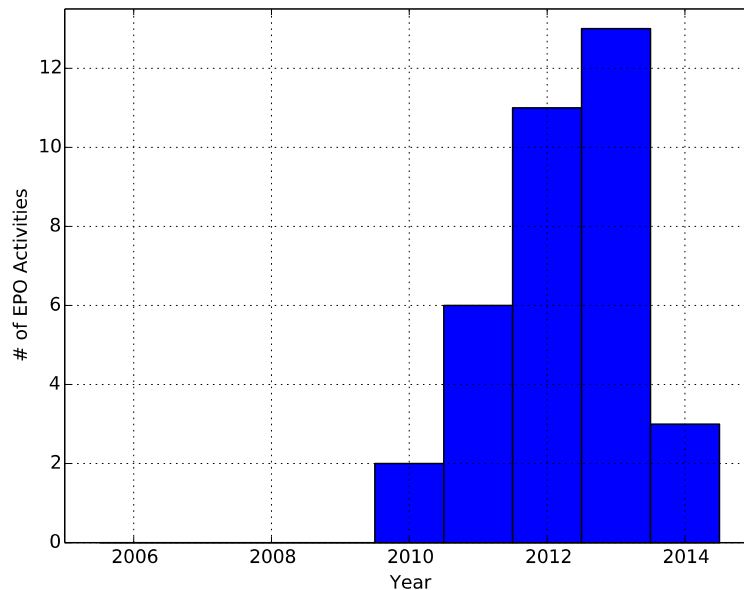


HOP Productivity Assessment: Outputs



Total EPO Per Year and Per HOP

- Star Performers: HOP 173 and Venus transit HOPs
- (included conference presentations for these HOPs as EPO due to their focus)
- Also includes theses
 - *note that through this process, it was discovered that 2 theses are missing from the Hinode Thesis list for 2013 (just added yesterday after request)*



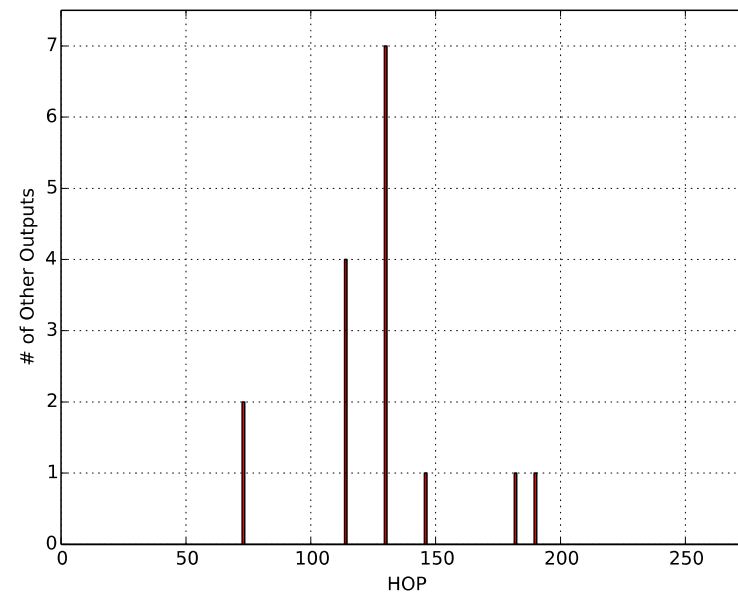
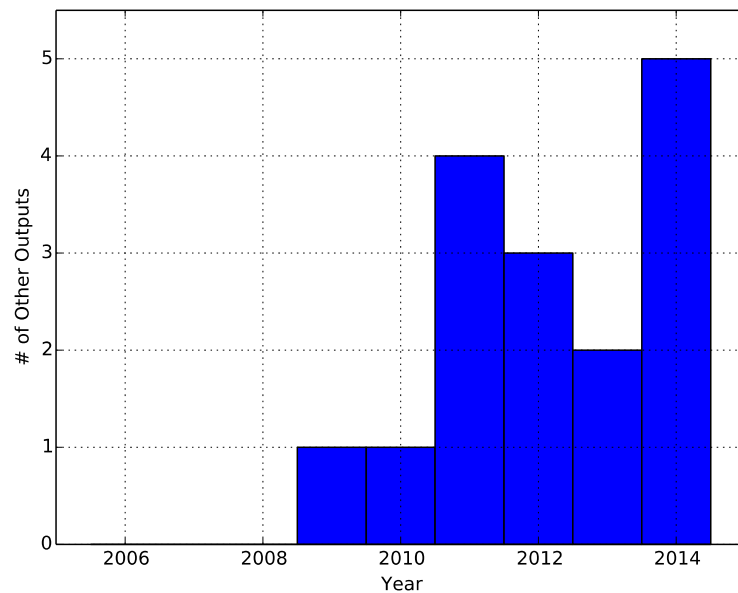


HOP Productivity Assessment: Outputs



Total Other Outputs Per Year and Per HOP

- e.g., conference presentations, animations, data collection
- not everyone reported these, so not precise





HOP Productivity Assessment: Assessment



- **What has worked well as a ****HOP**** (*based on the feedback received*)?**
 - Synoptic, long-term campaigns
 - Flux Emergence
 - Coronal Hole Boundaries / Solar Wind Origins
 - Prominences
 - EPO events (transits, eclipses, HOP173)
- Flares are difficult to plan for (obviously), so do not result in high yield as HOPs.
 - Exceptions!... (e.g., March 29, 2014 – have not received feedback on this flare.)
 - High risk/high reward
 - Typically result in active region monitoring which results in non-HOP research results.
- This information should feed into programs chosen during Focused Mode Operations.



1. Assess the productivity of the HOP program.

- **Determine the best type of HOPs for Focused Mode Ops.**
- Recommendation based on current results:
 - Quiet Sun Conditions
 - Long-term synoptic programs / scans
 - Polar Coronal Hole magnetic field / solar wind origin monitoring
 - Active Sun Conditions
 - Active Region tracking
 - Flux emergence
 - High yield EPO activities, such as eclipses and transits, would warrant a pause in Focused Mode Ops due to complicated coordination efforts.



2. Revisit guidelines for HOP approval by the Science Steering Committee (SSC).

- Provide information to assess value of proposed HOPs and productivity of frequent proposers.
- Check against Proposer and HOP productivity.
- Proposers must check their status page(s) and update as necessary or provide justification for lack of outputs.
- **Action [Savage/Watanabe]:** Add this step to the submission guidelines.



3. Review scheduling procedure.

- During IRIS/Hinode non-eclipse season, requests for time go way up.
 - This is generally a positive indication of Hinode's value to the community.
 - Makes scheduling more difficult.
 - Potential to miss more flares.
- Website developed to reduce confusion and make scheduling more effective and clear.
- Assessing productivity per HOP and per Proposer may reduce the number of HOPs approved, or hopefully, will instead encourage increased HOP productivity reporting.

http://hinode.msfc.nasa.gov/submitted_hops.html

The screenshot shows the Hinode website interface. At the top, it says 'National Aeronautics and Space Administration' and 'Goddard Space Flight Center'. There are links to 'Visit NASA.gov' and 'Contact Us', and a search bar with a 'GO' button. Below this is a banner image featuring a satellite (Hinode) and several solar images. A navigation bar includes 'S & RESOURCES', 'HINODE DATA & PUBLICATIONS', 'GALLERY', and 'OPERATIONS'. The main content area is titled 'HINODE OPERATION PLANS SUBMISSIONS -- NOVEMBER 2014'. It lists three submitted HOPs:

- Submitted HOP #1: RAISE/Mariska : November 3 : 18:48 - 20:00 UT (target 19:07 UT) +/-
- Submitted HOP #2: Transients/Kawate : January 9 - 15 : 14:30-17:30 UT
- Submitted HOP #3: Chrom/Jets/Ueno : October 9-15 & 26-23 : -1:00-3:00 UT

Below this, it details 'Submitted HOP #1:'. It includes a link to 'Full Proposal' and the following information:

- Title: Hinode Support for RAISE Rocket Launch
- Main Objective: The Rapid Acquisition Imaging Spectrograph Experiment (RAISE) sounding rocket payload is a high speed scanning-slit imaging spectrograph designed to observe the dynamics and heating of the solar chromosphere and corona on time scales as short as 100-200 ms, with 1-2 arcsec spatial resolution and a velocity sensitivity of ~2 km/s.
- ToO: No
- Proposers: John Mariska
- Dates: November 3
- Times: 18:48 - 20:00 UT (see comments)
- Pointing/Target: Active region

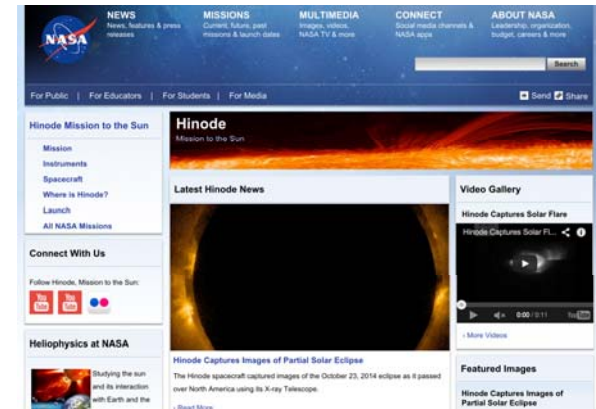
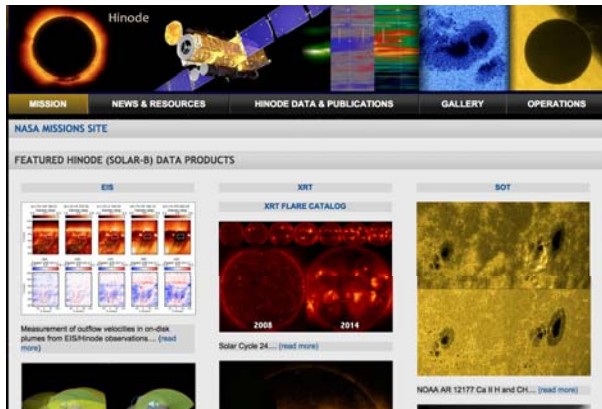


HOP Productivity Assessment: Science



4. Present science highlights

- PODs/XPOWs/Nuggets to MSFC main, MSFC News, and NASA mission sites



- Instrument teams have been providing examples of coordinated observations for review by NASA management.
 - Compilation from the past year...